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James A. Storer, Thomas G. Szymanski
May 1978 Proceedings of the tenth annual ACM symposium on Theory of com
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A general model for data compression is presented which includes most data
special cases. All macro schemes are based on the principle of finding redund
them by pointers to a common copy. Different varieties of macro schemes ma
interpretation of pointers, for instance, a pointer may indicate a substring of t
original string, or a substring of some ...

2 Compactly encoding unstructured inputs with differential compression
Miklos Ajtai, Randal Burns, Ronald Fagin, Darrell D. E. Long, Larry Stockmeyer
May 2002 Journal of the ACM (JACM), Volume 49 Issue 3
Full text available: pdf(348.32 KB) Additional Information: full citation, abstract, references,

The subject of this article is *differential compression*, the algorithmic task of fi
of data and using them to encode one version compactly by describing it as a
main goal of this work is to present new differencing algorithms that (i) opera
of change), (ii) make no assumptions about the format or alignment of input
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Keywords: Delta compression, differencing, differential compression

3 In-place reconstruction of delta compressed files
Randal C. Burns, Darrell D. E. Long
June 1998 Proceedings of the seventeenth annual ACM symposium on Principles (
Full text available: pdf(1.18 MB) Additional Information: full citation, references, citings, index t

4 Delta algorithms: an empirical analysis
James J. Hunt, Kiem-Phong Vo, Walter F. Tichy
April 1998 ACM Transactions on Software Engineering and Methodology (TOSEM
Full text available: pdf(338.07 KB) Additional Information: full citation, abstract, references,

Delta algorithms compress data by encoding one file in terms of another. This number of situations: strong multiple versions of data, displaying differences, storing backups, transmitting video sequences, and others. This article studie: delta algorithms, using a benchmark of over 1,300 pairs of files taken from tw Results indicate that modern ...

Keywords: benchmark, delta encoding, differencing

5 Datapath and control for quantum wires
Nemanja Isailovic, Mark Whitney, Yatish Patel, John Kubiatowicz, Dean Copsey, Mark Oskin
March 2004 ACM Transactions on Architecture and Code Optimization (TACO),
Full text available: pdf(476.83 KB) Additional Information: full citation, abstract, reference

As quantum computing moves closer to reality the need for basic architectura Quantum wires, which transport quantum data, will be a fundamental compon architectures. Since they cannot consist of a stream of electrons, as in the cla fundamentally be designed differently. In this paper, we present two quantum swapping of adjacent qubits, and a teleportation wire, ...

Keywords: Architecture, Control, Layout

6 Mobile data management: Mimic: raw activity shipping for file synchronizati
Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar
June 2004 Proceedings of the 2nd international conference on Mobile systems, a
Full text available: pdf(334.54 KB) Additional Information: full citation, abstract, referen

In this paper, we consider the problem of file synchronization when a mobile l server in a network file system. Several *diff* schemes have been proposed to i conventional file synchronization approaches which use full file transfer. These new file with respect to the old copy at the server and transfer the computed . file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping

7 VRML molecular dynamics trajectories
Geoff Leach, James Gilbert
February 1999 Proceedings of the fourth symposium on Virtual reality modeling la
Full text available: pdf(2.25 MB) Additional Information: full citation, references, index terms

Keywords: VRML, compression, molecular dynamics, scientific visualisation

8 Location-based services and mobile computing: algorithms: Vector map co
Shashi Shekhar, Yan Huang, Judy Djugash, Changqing Zhou
November 2002 Proceedings of the tenth ACM international symposium on Advanc
Full text available: pdf(450.83 KB) Additional Information: full citation, abstract, referen

Vector maps (e.g. road maps) are widely used in a variety of applications suc Systems(GIS), Intelligent Transportation Systems(ITS) and mobile computing vector maps has in some cases negatively impacted their usage and applicati storage available with mobile wireless devices or the limited bandwidth of the data compression techniques need to be applied on ...

Keywords: clustering, dictionary design, vector map compression

9 Algorithms and programming models for efficient representation of XML fo
Neel Sundaresan, Reshad Moussa
April 2001 Proceedings of the tenth international conference on World Wide We
Full text available: pdf(352.97 KB) Additional Information: full citation, references, citings, index

Keywords: DOM, SAX, WBXML, XML, compression

10 Linguistic structure as composition and perturbation
Carl de Marcken
June 1996 Proceedings of the 34th conference on Association for Computation
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This paper discusses the problem of learning language from unprocessed text
the problem of learning a lexicon. In particular, it argues for a representation
parameters like words are built by perturbing a composition of existing param
is demonstrated by several examples in text segmentation and compression, a
and the acquisition of mappings between te ...

11 Voice response systems
D L. Lee, F H. Lochovsky
December 1983 ACM Computing Surveys (CSUR), Volume 15 Issue 4
Full text available: pdf(2.22 MB) Additional Information: full citation, references, index terms

12 Efficiency and scaling: Assigning identifiers to documents to enhance the c
Fabrizio Silvestri, Salvatore Orlando, Raffaele Perego
July 2004 Proceedings of the 27th annual international conference on Research a
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Web Search Engines provide a large-scale text document retrieval service by
Inverted File indexes allow fast query resolution and good memory utilization
effectively and efficiently compressed by using variable length encoding meth
some algorithms aimed to find an assignment of the document identifiers whi
d-gaps, thus enhanc ...

Keywords: clustering property, document identifier assignment, index compre

13 Engineering the compression of massive tables: an experimental approach
Adam L. Buchsbaum, Donald F. Caldwell, Kenneth W. Church, Glenn S. Fowler,
February 2000 Proceedings of the eleventh annual ACM-SIAM symposium on Discr
Full text available: pdf(932.72 KB) Additional Information: full citation, references, citings, index te

14 XML indexing and compression: XPRESS: a queriable compression for XM
Jun-Ki Min, Myung-Jae Park, Chin-Wan Chung
June 2003 Proceedings of the 2003 ACM SIGMOD international conference on M
Full text available: pdf(277.17 KB) Additional Information: full citation, abstract, referen

Like HTML, many XML documents are resident on native file systems. Since XI disk space and the network bandwidth are wasted. To overcome the verbosity for XML data has been conducted. However, some XML compressors do not su other XML compressors which support querying compressed data blindly enco encoding methods. Thus, the query performance on com ...

15 MPEG-4: an object-based multimedia coding standard supporting mobile a
Atul Puri, Alexandros Eleftheriadis
June 1998 Mobile Networks and Applications, Volume 3 Issue 1
Full text available: pdf(747.80 KB) Additional Information: full citation, abstract, references, citi

The ISO MPEG committee, after successful completion of the MPEG-1 and the on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be complexity audio-visual scenes at very low bit-rates; however, in July 1994, i of scenes as a collection of individual audio-visual objects and enabling a ranc supported by other standards. One of the ke ...

16 CDNs and caching: Value-based web caching
Sean C. Rhea, Kevin Liang, Eric Brewer
May 2003 Proceedings of the twelfth international conference on World Wide
Full text available: pdf(168.62 KB) Additional Information: full citation, abstract, references,

Despite traditional web caching techniques, redundant data is often transferre transfers result from both resource modification and aliasing. Resource modifi single URI to change; often, in transferring the new data, some old data is ret when the same data is named by multiple URIs, often in the context of dynan web caching techniques index data ...

Keywords: HTTP, WWW, aliasing, caching, duplicate suppression, dynamic cor privacy, proxy, redundant transfers, resource modification, scalability, world v

17 Versioning and fragmentation: Automatic detection of fragments in dynamic
Lakshmish Ramaswamy, Arun Iyengar, Ling Liu, Fred Douglis
May 2004 Proceedings of the 13th international conference on World Wide W
Full text available: pdf(268.12 KB) Additional Information: full citation, abstract, referenc

Dividing web pages into fragments has been shown to provide significant bene caching. In order for a web site to use fragment-based content generation, ho dividing web pages into fragments. Manual fragmentation of web pages is exp This paper proposes a novel scheme to automatically detect and flag fragment web sites serving dynamic content. We consider ...

Keywords: L-P fragments, dynamic content caching, fragment detection, fragr

18 JAZZ: an efficient compressed format for Java archive files
Quetzalcoatl Bradley, R. Nigel Horspool, Jan Vitek
November 1998 Proceedings of the 1998 conference of the Centre for Advanced S
Full text available: pdf(73.54 KB) Additional Information: full citation, abstract, references, c

The Jazz file format is intended to be a replacement for the JAR file format wh Java programs. A Jazz file is compressed to a degree that far exceeds what is of the Jazz format permits faster transmission speeds over a network and has storage. The compression is achieved as a combination of different data comp characteristics of collectio ...

19 Potential benefits of delta encoding and data compression for HTTP
Jeffrey C. Mogul, Fred Douglis, Anja Feldmann, Balachander Krishnamurthy
October 1997 ACM SIGCOMM Computer Communication Review , Proceedings of tl Applications, technologies, architectures, and protocols for compute
Full text available: pdf(2.00 MB) Additional Information: full citation, abstract, references, ci

Caching in the World Wide Web currently follows a naive model, which assum times between changes. The model also provides no way to update a cache er transferring the resource's entire new value. Several previous papers have prc transferring only the differences, or "delta," between the cached entry and the use of dynamic traces of the full contents of ...

20 Software III: Storing text using integer codes
Raja Noor Ainon
August 1986 Proceedings of the 11th coference on Computational linguistic
Full text available: pdf(272.03 KB) Additional Information: full citation, abstract,

Traditionally, text is stored on computers as a stream of characters. The goal that facilitates word manipulation whilst reducing storage space. A word list w and words in a text are given two-byte integer codes that point to their respec implementation of the encoding scheme is described and the performance sta presented.

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2 An analysis of the longest match and the greedy heuristics in text encoding
Jyrki Katajainen, Timo Raita
April 1992 Journal of the ACM (JACM), Volume 39 Issue 2
Full text available: pdf(821.44 KB) Additional Information: full citation, abstract, references, citi

Text compression is often done using a fixed, previously formed dictionary (cc
substrings of the text can be replaced by code words. There always exists an
problem. Due to the long processing times of the various optimal algorithms,
the literature. In this paper, the worst-case compression gains obtained by th
heuristics for various types of dictionaries is ...

Keywords: optimal and heuristic encoding, shortest paths, textual substitutior

3 Tools for visualizing text compression algorithms
Sami Khuri, Hsiu-Chin Hsu
March 2000 Proceedings of the 2000 ACM symposium on Applied computing
Full text available: pdf(561.39 KB) Additional Information: full citation, references, index te

Keywords: adaptive Huffman coding, algorithms, dictionary encoding, text cor

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5 Compression, information theory, and grammars: a unified approach
Abraham Bookstein, Shmuel T. Klein
January 1990 ACM Transactions on Information Systems (TOIS), Volume 8 I
Full text available: pdf(1.80 MB) Additional Information: full citation, abstract, references, cit

Text compression is of considerable theoretical and practical interest. It is, for important for satisfying the requirements of fitting a large database onto a sir techniques discussed in the literature are model based. We here propose the r model of text generation that encompasses most of the models offered before possibility of compression to a ...

6 Efficient recompression techniques for dynamic full-text retrieval systems
Shmuel T. Klein
July 1995 Proceedings of the 18th annual international ACM SIGIR conference on information retrieval
Full text available: pdf(870.44 KB) Additional Information: full citation, references

7 **Dictionary-based order-preserving string compression**
Gennady Antoshenkov
February 1997 The VLDB Journal — The International Journal on Very Larg
Full text available: pdf(203.05 KB) Additional Information: full citation, abstract, i

As no database exists without indexes, no index implementation exists withou particular, without prefix and tail compression. However, despite the great po faster, application of general compression methods to ordered data sets has a demonstrates that the fast dictionary-based methods can be applied to order- same freedom as in the general case. The pro ...

Keywords: Indexing, Order-preserving key compression

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13 Posting compression in dynamic retrieval environments
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14 Engineering the compression of massive tables: an experimental approach
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original string, or a substring of some ...

16 The FINITE STRING Newsletter: Abstracts of current literature

Computational Linguistics Staff
January 1987 Computational Linguistics, Volume 13 Issue 1-2
Full text available: pdf(6.15 MB) Publisher Site Additional Information: full citation

17 Document processing and transaction modeling: A multi-group technique f

K. A. Hazboun, M. A. Bassiouni
June 1982 Proceedings of the 1982 ACM SIGMOD international conference on M
Full text available: pdf(725.49 KB) Additional Information: full citation, abstract, refer

An efficient compression technique that is particularly attractive for the storag
transfer of such files within a distributed communication network is outlined.
two-level hierarchy of Huffman-type binary trees, is a reversible semantic-ind
encoding method that makes use of the group locality of character reference
occurrence of various characters within the ...

Keywords: binary trees, character distribution, coding techniques, compressio
failure node, locality of character reference

18 MPEG-4: an object-based multimedia coding standard supporting mobile a

Atul Puri, Alexandros Eleftheriadis
June 1998 Mobile Networks and Applications, Volume 3 Issue 1
Full text available: pdf(747.80 KB) Additional Information: full citation, abstract, references, citi

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complexity audio-visual scenes at very low bit-rates; however, in July 1994, i
of scenes as a collection of individual audio-visual objects and enabling a ranc
supported by other standards. One of the ke ...

19 Computing curricula 2001
September 2001 Journal on Educational Resources in Computing (JERIC)
Full text available: pdf(613.63 KB) html(2.78 KB) Additional Information: full citation, references, citings, in

20 Optimizing document format: Compression of scan-digitized Indian languag technique
U. Garain, S. Debnath, A. Mandal, B. B. Chaudhuri
November 2003 Proceedings of the 2003 ACM symposium on Document eng
Full text available: pdf(272.00 KB) Additional Information: full citation, abstract, referen

In this paper, a new compression scheme is presented for Indian Language (Il technology for IL scripts is not matured enough, transcription of these docume techniques that achieve high degree of compression as well as suitable metho document indexing, retrieval, etc. The proposed method is essentially based c which has been realized with an efficient segmenta ...

Keywords: data compression, indian language, pattern matching, textual imag

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